



Permit Requirement Changes

Revised 06/06/2002

Sanitary Sewer Evaluation Survey (SSES) - PLAN A

Purpose of the SSES

The sanitary sewer evaluation survey is intended to locate and correct excessive infiltration and inflow (I/I) into the sewer lines in Miami-Dade County. At the present, excessive I/I flows cause sewer overflows leading to public health threats. This survey is one of several actions required by Chapter 24 of the Miami-Dade County Code to prevent these problems.

County Code Requirement for SSES:

Section 24-13.1(A)(1) of the Miami-Dade County Code provides that:

Each publicly or privately-owned or operated sanitary sewer collection system shall be evaluated in order to identify and reduce infiltration and inflow into the sanitary sewer collection system. The person responsible for the sewer system's operation shall implement a sewer system evaluation survey (SSES) and, if required, a rehabilitation program, incorporating the provisions and requirements set forth in the U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook

The timing for the production of this document, as set by Ordinance, requires that it be completed and submitted by **November 12, 2002**.

Description of SSES Due November 12, 2002

There are two types of SSES. The type that each facility will use depends on the quantity of gravity main at the facility. Those facilities with less than 1000 feet of main may use the abbreviated survey described below as Plan 'A'. Facilities with greater than 1000 feet of qualifying main, with or without a private sanitary pump station, will be required to complete the standard survey described below as Plan 'B'. If you are unsure which category your facility falls into, please contact Mr. Oscar Aguirre at 305-372-6899.

Plan 'A' . Under this option, your permitted facility would meet the SSES requirements by completing the following activities:

1. The gravity portion of the system shall be smoke tested to locate point sources of I/I.
2. A visual inspection shall be conducted of all manholes, if present.

3. Point sources of I/I detected by the smoke testing shall be repaired or corrected. The repairs may include the following:
 - a. repair of crushed or broken pipes
 - b. properly sealing clean-out caps
 - c. remove connections of stormwater drains and sewers
 - d. repair of visible inflow sources into manholes
4. The gravity system shall be re-tested to confirm that all problems have been corrected.
5. A report of this process shall be sent to DERM

Note: If no problems are detected during the first smoke test, a second test is not required.

DERM Monitoring Requirements

DERM shall be notified three (3) working days in advance of any smoke test or flow measurement in order to provide an observer. **Failure to notify DERM in advance of the test may result in invalidation of the data, requiring the test or measurement to be repeated.** Notification can be sent/addressed to:

DERM – PSO Program Coordinator

Phone Number: 305.372.6899

Fax Number: 305.372.6550

Internet Address: aguero@miamidade.gov for Oscar Aguirre
neumar@miamidade.gov for Richard Neumann

Evaluation Criterion for SSES

Pursuant to Chapter 24-13.1(A)(4) of the Miami-Dade County Code, the total combined Infiltration/Inflow shall be less than 5,000 gallons flow per day times the product of the nominal diameter of the pipe in inches and the length of the pipe in miles. Where the system contains pipes of different diameters, each run of pipe shall be calculated separately and the values added to determine the total for the system. For example, a system with 1000 feet of six inch nominal pipe would have a maximum permissible Infiltration/Inflow of $1000 \times 6 \times 5000 / 5280 = 5680$ gallons per day.

Requirements for Additional Corrections

Section 24-13.1(A)(5) of the Miami-Dade County Code provides that:

In the event that implementation of the initial sewer system infiltration and inflow rehabilitation programs fail to achieve the performance standards established in this section, the person responsible for the system's operation may, in lieu of performing additional rehabilitation, submit a cost-benefit analysis which analyzes the feasibility of performing additional rehabilitation to achieve said performance standards. If the

director or his designee determines that there is no technically feasible, economically reasonable means of compliance, then no further rehabilitation shall be required.

This Section is applicable only under specific conditions. The cost-benefit analysis shall be conducted only after the SSES has been completed, required corrections have been made, and a second flow measurement, if required, has indicated I/I flows in excess of the allowed rate.

This Section does not allow for the cost-benefit analysis to be submitted instead of the Sanitary Sewer Evaluation Survey (SSES). The SSES is a required document for all sewer systems permitted under the DERM Private Sanitary Sewers Operating Permit (PSO) program. This survey must be completed for all systems and submitted to DERM before November 12, 2002.

After completion of required repairs, the system shall again be tested to determine if it meets the mandated standard.

Grandfathered Facilities

All Properties/Facilities with sewer systems certified after November 12, 1997, will be granted a grandfather exemption from submitting the SSES for the first cycle which ends on November 12, 2002. Proof of certification must be provided.

Be advised that said Properties/Facilities would have to submit the SSES for the second cycle, which runs from November 12, 2002, until November 12, 2012 prior to the end of the cycle. DERM will send reminders of the SSES requirements for the second cycle to all facilities when appropriate.